

FILE COPY

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8053-3</u> (office use only)	Hydrologic Unit <u>10170101</u>
	Basin <u>Missouri River</u>	
	Newspaper <u>Springfield Times, PO Box 465, Springfield</u> <u>605 369-2441 (Wed) 57062</u>	
	<u>Press & Dakotan, 319 Walnut, Yankton 57078 605 645-7811</u>	

RECEIVED
SEP 17 2014
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name to Appear on Irrigation Permit Blane Nagel

(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent

(name and complete address if different than above name)

Mailing Address 31164 E.R.S. Rd Springfield SD 57062
(Address) (City) (State) (Zip Code)

Home Phone 605-369-2638 Cell 605-464-1187 Email nagelcatt@excite.com

2. Amount of water claimed 1.58 *CFS or 710 **GPM ***AF Total Acreage 140
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply well

4. Location of point of diversion 1 well NE 1/4 SE 1/4 Sec. 17 - T93N - R60W
(example - 3 wells in SW 1/4 NE 1/4 section 12 - T104N - R53W)
County Bon Homme

5. County or counties where water will be used Bon Homme

6. Annual period during which water is to be used MAY 1 thru Sept. 30

7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
<u>see attached sheet</u>			

8. Give a description of the project. (Attach sheet if more space is needed)

I'm working with Valley and Lindsey on developing irrigation on the existing farmground in sec. 17. A center pivot will cover approximately 40 acres by utilizing some exist pasture ground to the west.

I, Blane Nagel, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☐ Using existing well(s)a) If new wells, how many 1 Have test holes been drilled ☒ Yes ☐ No Drilled by _____
(if yes, please provide copies of logs)b) If existing wells, how many _____ Provide copy of log(s), if available. Drilled by Thein Well Co. Inc.c) Well Depth 140' Depth to Top of Water Bearing Material 61' Depth to Water from Surface 13'

d) Distance to nearest existing domestic well:

On applicant's property 3/4 mile On property owned by others 3/4 mile

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) _____

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

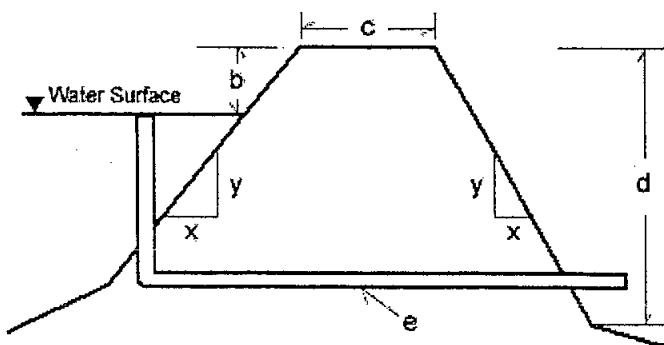
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



Acreage Breakdown

All in Section 17-T93N-R60W

SE 1/4 NW 1/4	14 acres
NE 1/4 SW 1/4	28 acres
SE 1/4 SW 1/4	4 acres
SW 1/4 SE 1/4	13 acres
NW 1/4 SE 1/4	40 acres
NE 1/4 SE 1/4	7 acres
SE 1/4 NE 1/4	32 acres
SW 1/4 NE 1/4	<u>2 acres</u>
Total	140 acres

Sec 7
T093N
R60W

Sec 8
T093N
R60W

Sec 9
T093N
R60W

Sec 18
T093N
R60W

Sec 17
T093N
R60W

Sec 16
T093N
R60W

Sec 19
T093N
R60W

Sec 20
T093N
R60W

Sec 21
T093N
R60W





United States Department of Agriculture
Farm Service Agency

PLSS: 17_93N_60W
Farm: 5607

Bon Homme County
1:7,905



January 17, 2012

Wetland Determination Identifiers

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

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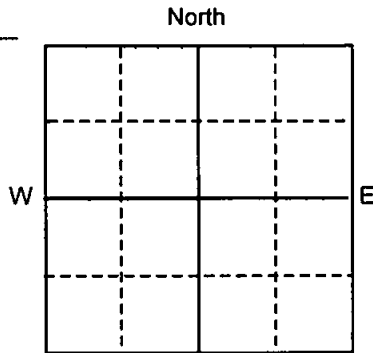
2010 Ortho-Photography - Not to Scale

Common Land Units

Non Cropland

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE ¼ SE ¼ Sec 17 Twp 93N Rg 60WCounty Bon HommePlease mark well
location with an "X"

Well Completion Date

March 5, 2014

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
75.0 ft. from septic (identify source)

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	12.00 IN	0.0 FT	61.0 FT	17.50 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Neat cement	69	Lb/gal	0.0 Ft	61.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
tremie piped

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information open hole from 61-139'

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? chlorinated
☐ No, Why Not? _____
Lab to which water
quality sample sent for analysis
owner to obtainWell Owner: Blane Nagel

Business Name: _____

Address: 31164 Equal Rights School RdCity, State, Zip: Springfield MN 57062

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top soil & clay	0	4
Gravel	4	8
Light brown chalk	8	22
Soft gray chalk	22	48
Hard gray chalf	48	130
Chalk & shale	130	139
Shale	139	140

STATIC WATER LEVEL 13.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: _____

☐ Bailed

☐ Other

Pumping Level Below Land Surface

41.0 Ft. After 3.5 Hrs. pumped 710.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

GPS: N 42 52.245

W 97 57.207

This well was drilled under license # 475 and this
report is true and accurate.Drilling firm: Thein Well Co., Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: _____